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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/898,431	07/02/2001	Yuri Granik	1011-78093-02	1914
	7590 11/15/2007 SPARKMAN, LLP	EXAMINER		
121 S.W. SALI	MON STREET		STEVENS, THOMAS H	
SUITE 1600 PORTLAND, (OR 97204		ART UNIT	PAPER NUMBER
			2121	
			MAIL DATE	DELIVERY MODE
			11/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1) Responsive to communication(s) filed on 25 October 2007. 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3] ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☐ Claim(s) 1-14 and 20-29 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. Sea 37 CFR 1.85(a), Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. Sea 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12] ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * o ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 11 ☐ Notice of References Cited (PTO-982) 12 ☐ Notice of Traitsperson's Patent Drawing Review (PTO-948) 31 ☐ Notice of Informal Patent Application		Application No.	Applicant(s)				
Thomas H. Stevens 2121 The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. **BIND ON MONTH'S from the maining date of this communication.** If NO period for resty is specified above, the maining date of this communication. **BIND OPERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM the service address across the specified above, the maining date of this communication. **BIND OPERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) MONTH Stem the remaining date of this communication. **BIND OPERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) MONTH Stem the remaining date of this communication. **BIND OPERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) MONTH Stem the remaining date of this communication. **BIND OPERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) MONTH STEM THE MAIN STEM THE MAIN STEM STEM STEM STEM STEM STEM STEM STEM	·	09/898,431	GRANIK ET AL.				
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a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 1. Information Disclosure Statement(s) (PTO/SB/08) 1. Information Disclosure Statement(s) (PTO/SB/08)	Priority under 35 U.S.C. § 119						
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09/898,431 Art Unit: 2121

DETAILED ACTION

1. Claims 1-14,20-29 were examined.

Section I: Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicants' submission filed on 10/25/2007 has been entered.

Section II: Non-Final Rejection

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-14, and 20-33 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim et al., (US Patent 6,544,699; hereafter Kim). Kim teaches a method for improving the accuracy of model-based optical proximity correction (OPC) (abstract).

Claim 1. A method of compensating mask/reticle data ("mask error effect can be

09/898,431

Art Unit: 2121

checked, column 5, lines 58-60) for lithographic process distortions ("empirical data...process distortions", column 2, lines 30-35), comprising the acts of: reading a set of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) that defines at least one feature to be created lithographically (column 2, lines 56-63); performing an etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62) of etch effects (column 2, lines 23-25) that would occur if a wafer (columns 4-5, lines 66-67 and 1-3, respectively) is exposed ("selected exposure", column 4, lines 44-50) using a mask/reticle corresponding to the set of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) and etched with an etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50); using results of the etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62) to produce a revised set (if an improvement is conducted then the event is revised, "...method of improving the accuracy of... OPC", column 4, lines 20-26)of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) that are compensated for the etch effects (column 2, lines 23-25) and performing optical process correction (OPC) (column 4, lines 20-25)to produce a set of OPC-corrected mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) that compensate for optical/resist process distortions using the etch-compensated set of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) as target layer (disclosure defines the target layer as the original layer to which the design layout is the original layout, "design layout"

09/898,431 Art Unit: 2121

column 2, lines 15-25) for the OPC.

Claim 2. The method of Claim 1, comprising an additional act of exporting the OPC-corrected set of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) to a mask/reticle writer to manufacture a corresponding mask/reticle.

Claim 3. The method of Claim 1, in which the act of performing the etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62) includes accessing a set of predetermined rules ("optical rules checker", column 1, line 59) for the etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50).

Claim 4: The method of Claim 1, in which the act of performing the etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62) includes accessing a table of predetermined values for the etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50).

Claim 5. A method of compensating mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) for lithographic process distortions ("empirical data...process distortions", column 2, lines 30-35), comprising the acts of: reading

09/898,431

Art Unit: 2121

an initial set of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60)that defines at least one feature to be created lithographically (column 2, lines 56-63); performing an etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62)of etch effects (column 2, lines 23-25)that would occur if a wafer (columns 4-5, lines 66-67 and 1-3, respectively) is exposed ("selected exposure", column 4, lines 44-50) using a mask/reticle corresponding to the initial set of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) and etched with an etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50); calculating etch biases from results of the etch simulation; and applying the calculated etch biases that are calculate from the initial set of mask/recticle data within a model-based optical process correction (OPC) (column 4, lines 20-25)loop that adjusts the mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) for optical/resist process distortions. Claim 6 The method of Claim 5, in which the act of performing the etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62) includes accessing a set of predetermined rules ("optical rules checker", column 1, line 59) for the etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50).

Claim 7. The method of Claim 5, in which the act of performing the etch simulation ("lithographic imaging and semiconductor process simulation..."

09/898,431

Art Unit: 2121

column 2, lines 59-62) includes accessing a table of predetermined values for the etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50).

Claim 8: A computer-readable media having a sequence of programmed instructions stored thereon that when executed by a computer causes the computer to perform the acts of: reading a set of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) that defines at least one feature to be created lithographically (column 2, lines 56-63); performing an etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62) of etch effects (column 2, lines 23-25) that would occur if a wafer (columns 4-5, lines 66-67 and 1-3, respectively) is exposed ("selected exposure", column 4, lines 44-50) using a mask/reticle corresponding to the set of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) and etched with an etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50) using the results of the etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62)to produce a revised set (if an improvement is conducted then the event is revised, "...method of improving the accuracy of... OPC", column 4, lines 20-26)of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60)that are compensated for the etch effects (column 2, lines 23-25)performing optical process correction (OPC) (column 4, lines 20-25)to produce a set of OPC-corrected mask/recticle data compensate for optical/resist process distortions

09/898,431

Art Unit: 2121

using the etch-compensate for optical/resist process distortions using the etch-compensated set of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60)as an input a target layer (disclosure defines the target layer as the original layer to which the design layout is the original layout, "design layout" column 2, lines 15-25)for the OPC.

Claim 9. The computer-readable media of Claim 8, wherein the sequence of programmed instructions causes the computer to export OPC- corrected mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) to a mask/reticle writer to manufacture a corresponding mask/reticle.

Claim 10. The computer readable media of Claim 8, in which the act of performing the etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62) includes accessing a set of predetermined rules ("optical rules checker", column 1, line 59) for the etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50).

Claim 11. The computer readable media of Claim 8, in which the act of performing the etch simulation includes accessing a table of predetermined values for the etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50).

09/898,431

Art Unit: 2121

Claim 12. A computer readable media having a sequence of programmed instructions stored thereon that when executed by a computer causes the computer to perform the acts of: reading an initial set of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60)that defines at least one feature to be created lithographically (column 2, lines 56-63); performing an etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62)of etch effects (column 2, lines 23-25)that would occur if a wafer (columns 4-5, lines 66-67 and 1-3, respectively) is exposed ("selected exposure", column 4, lines 44-50) with a mask/reticle corresponding to the set of initial mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) and etched with an etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50); calculating etch biases from results of the etch simulation; and applying the etch biases that are calculated from the initial set of mask/recticle data in a model-based optical process correction (OPC) (column 4, lines 20-25)loop that adjusts the mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) for optical/resist process distortions.

Claim 13 The computer readable media of Claim 12, in which the act of performing the etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62) includes accessing a set of predetermined rules ("optical rules checker", column 1, line 59) for the etch process (fabrication part of the etching process column 4, lines 3-6 dealing with

09/898,431 Art Unit: 2121

its dimensions, column 4, lines 44-50).

Claim14 The computer readable media of Claim 12, in which the act of performing the etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62) includes accessing a table of predetermined values for the etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50).

Claim 20. A device that is formed on a wafer (columns 4-5, lines 66-67 and 1-3, respectively) created by the acts of: reading a set of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60)that defines at least one feature to be created lithographically (column 2, lines 56-63); performing an etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62) of etch effects (column 2, lines 23-25) that would occur if a wafer (columns 4-5, lines 66-67 and 1-3, respectively) is exposed ("selected exposure", column 4, lines 44-50) using a mask/reticle corresponding to the set of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60)and etched with an etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50); using results of the etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62)to produce an a revised set (if an improvement is conducted then the event is revised, "...method of improving the accuracy of... OPC", column 4, lines 20-26)of

09/898,431

Art Unit: 2121

mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) that are compensated for the etch effects (column 2, lines 23-25) performing optical process correction (OPC) (column 4, lines 20-25) to produce OPC-corrected mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) that are compensated for optical/resist process distortions using revised set (if an improvement is conducted then the event is revised, "...method of improving the accuracy of... OPC", column 4, lines 20-26) of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) as target layer (disclosure defines the target layer as the original layer to which the design layout is the original layout, "design layout" column 2, lines 15-25) for the OPC; exporting the OPC-corrected set of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) to a mask/reticle writer to manufacture a corresponding mask/reticle; and using the mask/reticle to create the device on the wafer (columns 4-5, lines 66-67 and 1-3, respectively).

Claim 21 The device of Claim 20, in which the act of performing the etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62) includes accessing a set of predetermined rules ("optical rules checker", column 1, line 59) for the etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50).

Claim 22. The device of Claim 20, in which the act of performing the etch

09/898,431 Art Unit: 2121

simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62) includes accessing a table of predetermined values for the etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its

dimensions, column 4, lines 44-50).

Claim 23. A device that is formed on a wafer (columns 4-5, lines 66-67 and 1-3, respectively) created by the acts of: reading an initial set of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60)that defines at least one feature to be created lithographically (column 2, lines 56-63); performing an etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62) of etch effects that would occur if a wafer (columns 4-5, lines 66-67 and 1-3, respectively) is exposed ("selected exposure", column 4, lines 44-50) using a mask/reticle corresponding to the initial set of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) and etched with an etch process (fabrication part of the etching process column 4. lines 3-6 dealing with its dimensions, column 4, lines 44-50); calculating etch biases from results of the etch simulation; applying the etch biases that are calculated from the initial set of mask/recticle data within a model-based optical process correction (OPC) (column 4, lines 20-25)loop that adjusts the mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) for optical/resist process distortions; exporting the adjusted mask/reticle data ("mask error effect can be checked, column 5, lines 58-60)to a mask/reticle writer to create a corresponding mask/reticle; and using the mask/reticle to create the device on a wafer (columns 4-5, lines 66-67 and 1-3, respectively).

09/898,431

Art Unit: 2121

Claim 24. The device of Claim 23, in which the act of performing a simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62)includes accessing a set of predetermined rules ("optical rules checker", column 1, line 59) for the etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50).

Claim 25. The device of Claim 23, in which the act of performing the etch simulation includes accessing a table of predetermined values for the etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50).

Claim 26. The method of Claim 1, wherein the etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62)determines an increase in size (design choice) of a feature that would be created on a wafer (columns 4-5, lines 66-67 and 1-3, respectively) compared with a target feature size as a result of the etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50) and a corresponding feature in the revised set (if an improvement is conducted then the event is revised, "...method of improving the accuracy of... OPC", column 4, lines 20-26) of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) is biased with a corresponding decrease in size (design choice).

09/898,431 Art Unit: 2121

Claim 27. The method of Claim 1, wherein the etch simulation ("lithographic imaging and semiconductor process simulation..." column 2, lines 59-62)determines a decrease in size (design choice) of a feature that would be created on a wafer (columns 4-5, lines 66-67 and 1-3, respectively) compared with a target feature size as a result of the etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50) and a corresponding feature in the revised set (if an improvement is conducted then the event is revised, "...method of improving the accuracy of... OPC", column 4, lines 20-26) of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) is biased with a corresponding increase in size (design choice).

Claim 28. The computer readable media of Claim 8, wherein the instructions further cause the computer to determine an increase in size (design choice) of a feature that would be created on a wafer (columns 4-5, lines 66-67 and 1-3, respectively) compared with a target feature size as a result of the etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50) and a corresponding feature in the revised set (if an improvement is conducted then the event is revised, "...method of improving the accuracy of...

OPC", column 4, lines 20-26) of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) is biased with a corresponding decrease in size (design

09/898,431 Art Unit: 2121

choice).

Claim 29. The computer readable media of Claim 8, wherein the instructions further cause the computer to determine a decrease in size (design choice) of a feature that would be created on a wafer (columns 4-5, lines 66-67 and 1-3, respectively) compared with a target feature size as a result of the etch process (fabrication part of the etching process column 4, lines 3-6 dealing with its dimensions, column 4, lines 44-50) and a corresponding feature in the revised set (if an improvement is conducted then the event is revised, "...method of improving the accuracy of...

OPC", column 4, lines 20-26) of mask/reticle data ("mask error effect can be checked, column 5, lines 58-60) is biased with a corresponding increase in size (design choice).

Section III: Response to Arguments

112

5. Applicants are thanked for addressing these issues. Rejection is withdrawn.

102(e)

6. Applicants are thanked for addressing these issues; however, applicants' response is non-persuasive in view of the prior art. Arguments regarding the limitation "compensating mask/recticle..." is now moot by applicants' amendment (applicants' response, pg. 7 of 9, 3rd paragraph, line 7). The target layer is defined in applicants'

09/898,431

Art Unit: 2121

disclosure as the original layer (specification, paragraph [0005]) thus is inherent step of performing an OPC process; same logic applies to "reading the initial mask/reticle data" since a computer-based simulation event incorporates reading said data. Rejection, as set forth above, stands.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mr. Tom Stevens whose telephone number is 571-272-3715.

If attempts to reach the examiner by telephone are unsuccessful, please contact examiner's supervisor Mr. David Vincent 571-272-3080. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.. Answers to questions regarding access to the Private PAIR system, contact the Electronic Business Center (EBC) (toll-free (866-217-9197)).

David Vincent

Supervisory Patent Examiner

Tech Center 2100